Claims:

1. Molding insert (FE) having one or more mold cavities (FN), for use in molding machines, for the production of compacted molded bodies (FS), particularly concrete molded stones, and their deposit in a multi-layer arrangement, whereby the device contains pressure devices for pushing the compacted molded bodies out of the molding insert, in the downward direction, characterized in that the walls of the mold cavity have relief structures, with depressions that possess holding flanks (HF) that drop down towards the center of the mold cavity, whereby the relief (RS) is coordinated with the volume of the mold cavity and the material of the molded body, in such a manner that on the one hand, the inherent weight of the molded body is not sufficient to de-mold the latter from the mold cavity and, on the other hand, the molded body can be de-molded from the mold cavity, under the influence of the pressure device, without shearing off the projections (GR) that are located in depressions of the relief, on lateral surfaces of the molded body.

2. Molding insert as recited in claim 1, characterized in that the relief depth (RT) of the relief structures (RS) is less than 1.5 mm, preferably less than 0.8 mm.

3. Molding insert as recited in claim 1 or 2, characterized in that the holding flanks (HF) run in strip shape and at least predominantly horizontally.

4. Molding insert as recited in one of claims 1 to 3, characterized in that holding flanks are disposed several times in the vertical direction, following one another.

5. Molding insert as recited in one of claims 1 to 4, characterized in that the cumulative length of the holding flanks is greater than the circumference of the molded body, preferably greater than twice the circumference of the molded body.

6. Molding insert as recited in one of claims 1 to 5, characterized in that holding flanks are formed on at least two wall surfaces of the mold cavity that lie opposite one another, with reference to the center of gravity of the molded body.

7. Molding insert as recited in one of claims 1 to 6, characterized in that the relief structure contains grooves (NU, NX) having a concave and/or convex arched cross-section.

8. Molding insert as recited in one of claims 1 to 7, characterized in that the wall of the mold cavity contains a prismatic wall

segment and the relief (RS) is set back relative to the wall surfaces of the prismatic segment.

9. Molding insert as recited in one of claims 1 to 8, characterized in that the relief is formed predominantly in the lower half of the vertical expanse of the walls of the mold cavity.

10. Molding insert as recited in one of claims 1 to 9, characterized in that the clear cross-section of the mold cavity widens in the downward direction, in the vertical progression of the relief structure.

11. Molding insert as recited in one of claims 1 to 11, characterized in that additional depressions (AA) for spacer elements (AH) to be molded onto the molded body are made in the walls of the mold cavity, which depressions have a greater depth than the relief structure and are open towards the bottom.

12. Molding insert as recited in one of claims 1 to 11, characterized in that the surfaces of the walls (NWL, NWQ) of the mold cavities are hardened.